POSITION DUTY STATEMENT

PM-0924 (REV 3/2006)

CLASSIFICATION TITLE	DISTRICT/DIVISION/OFFICE				
Transportation Engineering Technician	North Region Construct	Region Construction			
WORKING TITLE	POSITION	EFFECTIVE. DATE			
Construction Materials Tester/Inspector	927-502-3175-				

As a valued member of the Caltrans team, you make it possible for the Department to improve the mobility across California by being innovative and flexible; reporting to work as scheduled; working cooperatively with team members and others; and treating others fairly, honestly and with respect. Your efforts are important to each member of the team, as well as those we serve.

GENERAL STATEMENT:

Under the direction of an Area Construction Engineer, a Senior Transportation Engineer or a Transportation Engineer acting in a lead capacity, the incumbent will make construction inspections and field investigations of materials used in construction projects. Incumbent may be required to operate state vehicles on assignments throughout the North Region. Must have a current California driver's license.

TYPICAL DUTIES:

Percentage

Job Description

- Essential (E)/Marginal (M)1
- Will make field investigations and laboratory analysis of materials being used in 40% (E) construction projects; will make controlled tests and checks performance of construction materials, soils, aggregates, cement, asphalt, concrete, and other construction materials. Will analyze and approve, or assist in analyzing and approving materials, incorporated in nonstandard major structures; evaluate or assist in evaluating damage, for all types of transportation facilities. perform tests on construction materials to determine their compliance with the Standard Specifications applicable to the year the job is bid.
- 25% (E) Will perform compliance inspections of Asphalt Concrete (AC) Plants and Portland Cement Concrete (PCC) plants during construction projects insuring compliance with plans and specifications of construction projects. maintain, and calibrate materials testing equipment used to determine compliance with Specifications during construction projects.
- Will make inspections of construction projects. Ensure compliance with plans 25% (E) and specifications, collects engineering data. Assist in drafting and prepare specifications, change orders, contract estimates, and other documents and reports involved in the construction of projects. Advise Resident Engineer of problems or situations on project sites.
- 10% (M) Will perform miscellaneous office duties and nonprofessional engineering work as assigned, on various construction projects such as; filing, making copies of

¹ ESSENTIAL FUNCTIONS are the core duties of the position that cannot be reassigned MARGINAL FUNCTIONS are the minor tasks of the position that can be assigned to others

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project related information and receiving and making phone calls in the office.

SUPERVISION EXERCISED OVER OTHERS:

Incumbent does not supervise.

KNOWLEDGE, ABILITIES AND ANALYTICAL REQUIREMENTS:

Incumbent must be familiar with construction materials specifications, PCC and AC plants and must be proficient in California test methods. Methods of proportioning and handling Portland Cement Concrete and Asphalt Concrete, handling of asphaltic oils and emulsions, testing of materials, computer application to transportation engineering; factors which influence the impact of highways and other transportation facilities on the environment; principles and practices involved in utility relocation. Incumbent may be required to operate state vehicles while on assignment throughout the North Region.

Communicate effectively orally and in writing at a level required for successful job performance. Make fundamental and accurate engineering calculations; understand very basic design engineering principles; ability to research and compile data and prepare calculations for a variety of routine transportation improvement projects.

Will operate state vehicles in the performance of assigned tasks, must possess a valid drivers license.

CONSEQUENCE OF ERROR/RESPONSIBILITY FOR DECISIONS:

Incumbent is responsible for determining the acceptability of materials in relation to the Specifications; errors may lead to inaccurate tests, with subsequent structural failure of roadbeds or contractor's claims due to errors in testing, which leads to rejection of satisfactory materials and work. Incumbent will be responsible to make accurate engineering calculations of a routine nature; apply sound engineering principles to various routine engineering activities; take effective action to avoid delays. Misinformation or incomplete information could result in incorrect or late payments to the Contractor.

PUBLIC AND INTERNAL CONTACTS:

Must be able to establish and maintain friendly and cooperative relations with those contacted in the course of the work. Such as: fellow Caltrans workers, contractors' employees, engineering consultants, to transmit or obtain relevant engineering information. These contacts could be verbal or written, as needed, to perform assignments.

PHYSICAL, MENTAL AND EMOTIONAL REQUIREMENTS:

Employee may be required to stand for large periods of time, walk on slopes or uneven terrain, move and transport bags of material samples to Materials Labs. May occasionally be required to move equipment and testing materials weighing up to 50 lbs. Night work, frequent travel in and long-term assignments throughout the North Region may be required. Will take and test material samples and do other non-professional engineering work as assigned.

When at their base office setting, employee may be required to sit for long periods of time using a keyboard and video display terminal and would be required to work in a climate-controlled office with artificial lighting, etc. In the course of the employee's work, must maintain a cooperative working relationship within the working environment, with peers, subordinates, contractors and their employees.

ADA Notice: For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

STATE OF CALIFORNIA \bullet DEPARTMENT OF TRANSPORTATION **POSITION DUTY STATEMENT**

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WORK	ENVIR	ONN	MENT:
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Will	be subje	ect to	noise,	odors,	dust,	extreme	e weather	conditions,	climate-	controlled	environ	ment,
and a	artificial	lighti	ng, etc	. Must	work	with an	d about a	variety of n	naterials,	construction	on and te	esting
equi	pment.											

I have read, and understand the duties listed above. If you believe you may require accommodation, please discuss this with your hiring supervisor.

EMPLOYEE (Print)	DATE
EMPLOYEE (Signature)	DATE

I have discussed with and provided a copy of this duty statement to the employee named above.

SUPERVISOR (Print)	DATE		
SUPERVISOR (Signature)	DATE		